P	ATENT COOPI	ERATION TRE	ATY	2011112
From the INTERNATIONAL SEARCHING AUT	HORITY	_		YOU M
To: YOU ME PATENT & LAW FIRM Seolim Bldg.649-10 Yoksam-dong, Kangnam-ku Seoul 135- 080 Republic of Korea			PCT	2005. 8.
		WRITTEN OPINION OF THE RECEI		
		Date of mailing (day/month/year)	23 AUGUST 2005 (23.0	8.2005)
Applicant's or agent's file reference OPP051377KR		FOR FURTHER	ACTION See paragraph 2 below	
International application No. PCT/KR2005/001410 International filing of the second sec			Priority date(day/month/year) 13 MAY 2004 (13.05.2004)	
International Patent Classification (IPC) IPC7 H01M 4/88	or both national classific	cation and IPC		
Applicant LG CHEM, LTD. et al				
Box No. IV Lack of unity Box No. V Reasoned state citations and ex Box No. VI Certain docum	nent of opinion with regard of invention ement under Rule 43bis. I explanations supporting superts cited as in the international app	ard to novelty, inventive (a)(i) with regard to not one of the statement olication	e step and industrial applicabili	
2. FURTHER ACTION If a demand for international prelimit International Preliminary Examining other than this one to be the IPEA an opinions of this International Searchi	Authority ("IPEA") exc d the chosen IPEA has n	ept that this does not a otified the Internations	oply where the applicant choose	es an Authority

Name and mailing address of the ISA/KR

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Facsimile No. 82-42-472-7140

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

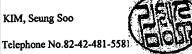
Date of completion of this opinion

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing

of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

Authorized officer

22 AUGUST 2005 (22.08.2005)



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/001410

Box No. I Basis of this opinion 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing b. format of material on paper in electronic form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in electronic form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2005/001410

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

. Statement Novelty (N)	Claims 1-13	YES
	Claims	NO
Inventive step (IS)	Claims 1-13	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-13	YES
	Claims	NO

2. Citations and explanations:

Reference is made to the following documents:

D1) US 2004-18937 A

D2) US 6136463 A.

D3) JP 2001-307751 A

D4) JP 2000-277123 A

I-Novelty:

Claim 1 of the present invention is concerned with a system for manufacturing a membrane electrode assembly for a fuel cell comprising catalytic solution preheating apparatus, carrier gas preheater, cathode catalytic solution spraying nozzle and anode catalytic solution spraying nozzle. Although D1-D4 cited in the international search report disclose a system or a method for manufacturing a membrane electrode assembly by catalytic coating onto the surface of polymer electrolyte membrane, technical features comprising an apparatus for preheating catalytic solution are not described in D1-D4. Accordingly, the subject matter of claim 1 seems to be novel.(PCT Article 33(2)). And also, independent claim 9 on a method for manufacturing a membrane electrode assembly for a fuel cell also has novelty as it includes a novel manufacturing system of claim 1. In addition, claims 2-8 and 10-13 comply with PCT Article 33(2) as they are dependent claims.

II-Inventive step:

1) Concerning claims 1 and 9 (Independent claims)

The references D1-D4 do not disclose an apparatus and a method for manufacturing a membrane electrode assembly for a fuel cell comprising catalytic solution preheating apparatus. They just describe a system or a method for manufacturing a membrane electrode assembly by a general catalytic coating method. In addition, it is not obvious from the references D1-D4 by the skilled person in the art. Consequently, there is no suggestion in any of the references, either alone or in combination, which would lead to the solution posed by the present invention